

Welcome to Chem 7421  
**Medicinal Chemistry & Drug Discovery II**  
Spring 2024  
Mar – May

**Class Information:** Class will be in person. Slides used will be posted on Canvas after class; lectures will not be recorded.

**Instructor:** Dr. Donna Huryn, Department of Chemistry; [huryn@sas.upenn.edu](mailto:huryn@sas.upenn.edu).

**Class Meeting Times:** Tu, Th 8:30-9:59; 3/12-5/1; Attendance is expected.

**Office hours:** Monday 2:00 pm or by appointment (e-mail Professor Huryn to set up a time).

**Resources:**

- Canvas Web-site: powerpoint slides, announcements, information on research/ presentation assignment
- Textbook: *Medicinal Chemistry*, Dunlap & Huryn (CRC Press/ Taylor & Francis); also available in the Chem Library. Readings from the textbook will be assigned; some problems from the text book will also be assigned. Material covered will focus on Chapters 1-5, with various sections of Chapters 6-13 also included.

**Assessments:**

- Final Exam: 40%
- Research Project: 40%
- Homework/ Engagement: 20%
  - Weekly homework assignments
  - Attendance at lectures is strongly encouraged and will be considered part of grade.

**Grading:**

90-100: A-, A, A+  
80-89: B-, B, B+  
70-79: C-, C, C+  
65-69: D  
<65: F

	Lecture Topics (schedule subject to change)
Mar 12-21	Course Introduction and Goals  Drug Target Classes
Mar 26, 28	Anti-cancer drugs
April 2, 4	Anti-bacterial drugs Anti-viral drugs
April 9, 11	CNS Drugs
April 16, 18	Select Aspects of Drug Discovery Process chemistry Formulations Intellectual Property
April 23, 25	Case Studies
April 30	Review

**Physical Safety.** Access to the Chemistry 1973 Building is controlled by a security guard and a PennID scanner. As a member of the Penn community, you have access to both the [Penn Walking Escort Service](#) (call 215-898-9255, dial 511 from a campus phone, or use a blue-light ephone on campus) and the [Penn Evening Shuttle](#) (call 215-898-7433 or use the [PennRides on Request](#) app). Additional information on Penn safety initiatives can be found [here](#).

**Academic Integrity:** It is our expectation that you are arriving to this class as a kind, hardworking, respectful and honest person. If you have questions or concerns about academic integrity, the Penn Code of Academic Integrity can be found [here](#).

**Mental Health Resources:** The Chemistry Department is here to support you! Here at Penn Chemistry, we care about the holistic well-being of our students. It is all too often that, while

focusing on academics, students forget to attend to both their physical and mental health, resulting in anxiety, depression, and a multitude of detrimental issues. For guidance for resources, chemistry graduate students please feel free to reach out to the Chemistry Graduate Chair, Professor James Petersson ([ejamesp@upenn.edu](mailto:ejamesp@upenn.edu)) or Ms. Kristen Simon, MCS students Graduate Coordinator ([chemgrad@sas.upenn.edu](mailto:chemgrad@sas.upenn.edu)); MCS students should contact MCS Associate Director Dr. Tina Ross ([tmross@sas.upenn.edu](mailto:tmross@sas.upenn.edu)) or MCS Coordinator Ry Eskridge ([reskridg@sas.upenn.edu](mailto:reskridg@sas.upenn.edu)). Undergraduates or graduate students from other departments should seek guidance from their advisor or department coordinator. If you, or anybody you know, is in need of mental health care, please refer to the following campus resources: (1) Counseling and Psychological Services, CAPS 215-898-7021 (off hours and weekends 215-349-5490); (2) Department of Public Safety 215-898-7333, or 511 if imminent danger to themselves or others; (3) Finding Programs for Student Wellness through the VPUL; and (4) Student Health Services.

**Inclusion and Diversity:** At Penn Chemistry, we value all students regardless of their background, country of origin, race, religion, ethnicity, disability status, etc. and are committed to providing a climate of inclusiveness within all aspects of your experience in the Department. If there are elements of your culture or identity that you would like to share with me as they relate to your success in this class, I am happy to meet to discuss. Likewise, if you have any concerns in this area or are facing any special issues or challenges, you are encouraged to discuss the matter with me (set up a meeting by email) with an assurance of full confidentiality (only exceptions being mandatory reporting of academic integrity/code violations and sexual harassment), or with the Chemistry Undergraduate Office or the Undergraduate Biochemistry Program Office (see above).

**Formal and Informal Accommodations:** The Chemistry Department at Penn is committed to assisting students requiring special accommodations for circumstances that are registered with the Office of Student Disability Services (SDS; <https://www.vpul.upenn.edu/lrc/sds/>). The University of Pennsylvania provides reasonable accommodations to students with disabilities who have self-identified and been approved by the Office of Student Disabilities Services (SDS). If you have not yet contacted SDS and would like to request accommodations or have questions, you can make an appointment by calling SDS at 215-573-9235. The office is located in the Weingarten Learning Resources Center at Stouffer Commons 3702 Spruce Street, Suite 300. All services are confidential. If you are not formally registered with SDS and have anxiety, depression, learning disabilities or other issues that affect your ability to fully participate and learn in this class, you are encouraged to check-in with me or with the Chemistry Undergraduate Office or the Undergraduate Biochemistry Program Office (see above) so that we can help you to secure the resources to promote your success.